

National Pre-Hospital & Hospital Data Integration Listening Session Summit

Office of EMS, National Highway
Traffic Safety Administration
NEMSIS TAC





NHTSA's National EMS Information System



- <u>Documentation standard</u> for local EMS patient care reports
- Data element dictionary for point of care collection
- Compliance testing for ePCR software
- Facilitation of interoperability and exchange standards
- Collection of select data into the <u>National EMS Database</u> from every EMS activation
 - Online National EMS Database for research and & surveillance



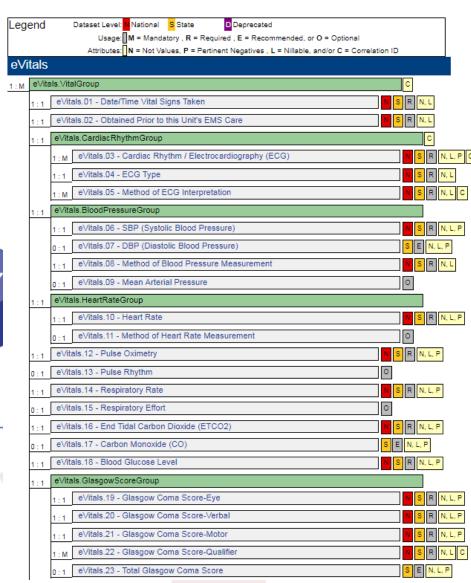


Database Structure

NEMSIS v3 Web Services Guide



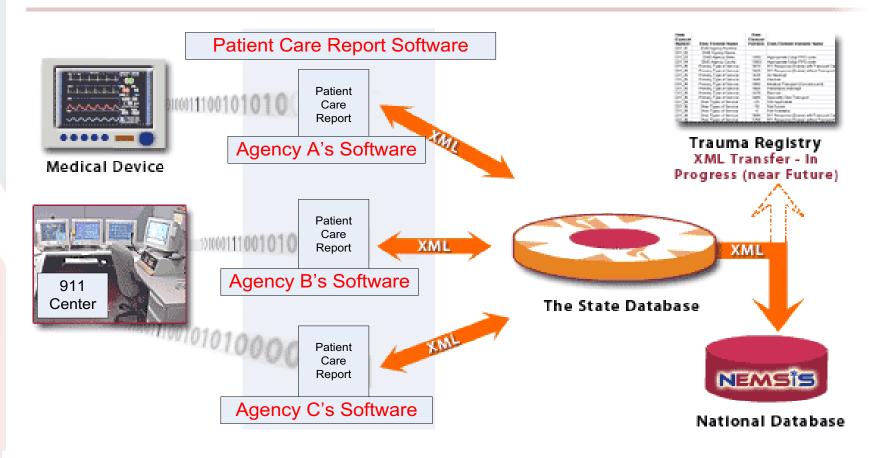
NEMSIS V3 Schematron Guide







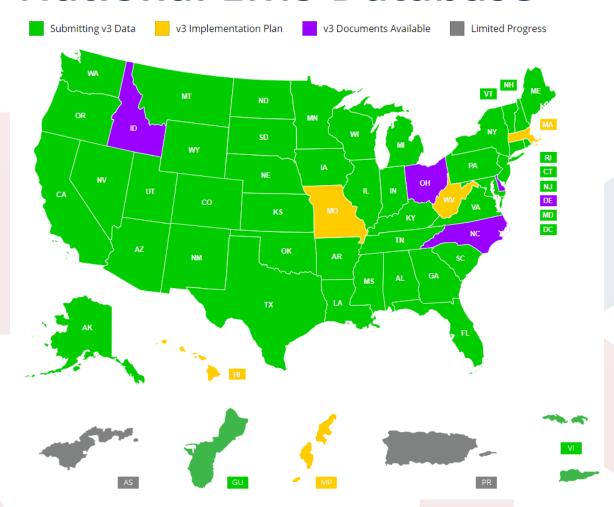
THE PORTABILITY OF DATA - the NEMSIS STANDARD.







States and Territories Submitting to the National EMS Database







National Public-Release Research Dataset

Statistical Year	Reporting States ¹	Reporting Agencies ²	Number of Events	Treated and Transported 911 Response ²
2009	26	1,673	5,767,090	3,367,668
2010	31	3,529	9,874,748	4,874,061
2011	35	5,395	14,371,941	7,701,605
2012	43	6,415	19,831,189	10,733,925
2013	45	8,183	23,897,212	12,595,958
2014	48	8,785	25,835,729	13,769,286
2015	49	10,137	30,206,450	15,729,516
2016	49	9,993	29,919,652	15,361,777
2017	35	4,016	7,907,829	4,233,046
2018	43	9,599	22,532,890	10,675,178

¹ Number of reporting states and territories of the United States.

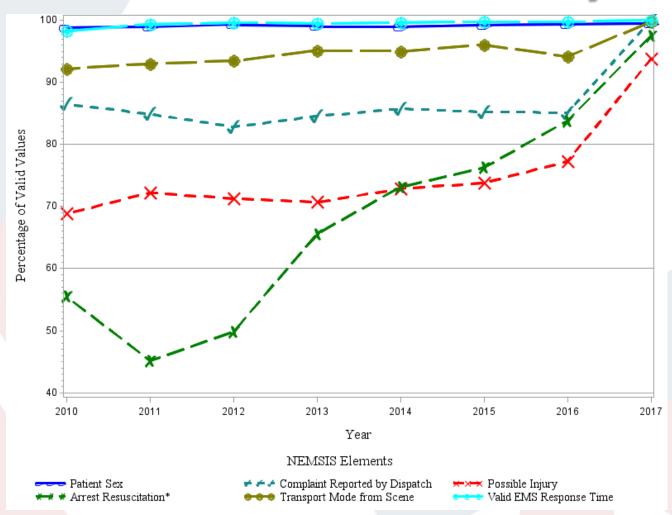
²Only including the events that are 911 calls, treated and Transported by EMS.



2019: 31,650,132 (as of 1/27/2020)



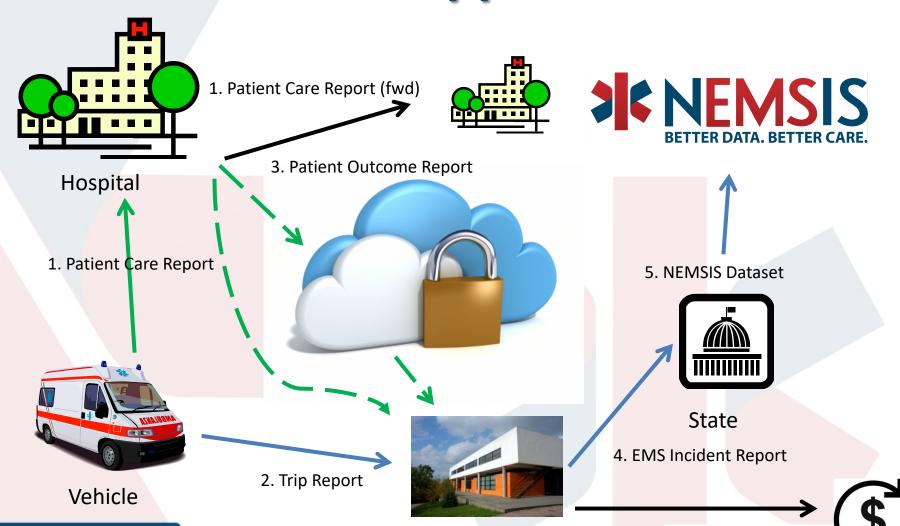
Ensure Data Quality







NEMSIS Support of HIE





Agency





CDA: ePCR Ambulance to ED





ANSI/HL7 CDAR2L3IG EMSRUNRPT, R1-2014 6/27/2014

HL7 Implementation Guide for CDA® Release 2 – Level 3: Emergency Medical Services; Patient Care Report, Release 1 – US Realm

June 2014

Sponsored by: Clinical Interoperability Work Group Structured Documents Work Group





Plan for NEMSIS Version 3.5.0

- Problem
 - ANSI approved guide is a "one-off" that hospitals did not want to implement.
- Course Correction
 - Manipulate the CMS approved CCD to contain NEMSIS elements
 - Can support Level-1 and level-3 implementations
 - Utilize the CMS Unstructured Document as a "wrapper" for a PDF
 - Utilize HL7 V2 implementation





CCDA NEMSIS eOutcomes

CDAR2 IG EMS HOSPOUTCOMESRPT R1 D1 2016JAN



HL7 CDA® R2 Implementation Guide: Emergency Medical Services Hospital Outcomes Report, Release 1

January 2016

HL7 Normative Ballot

Sponsored by: Clinical Interoperability Work Group Emergency Care Work Group Structured Documents Work Group





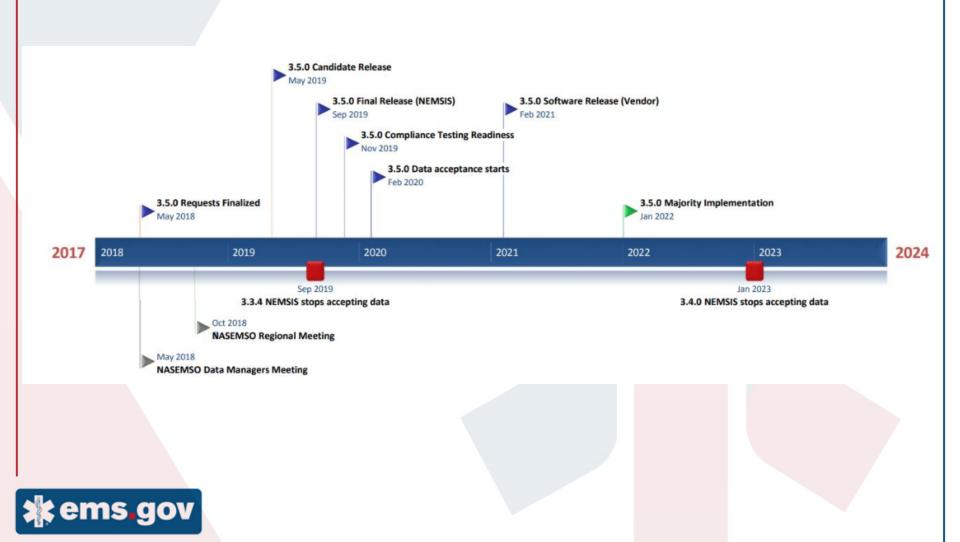
Plan for NEMSIS Version 3.5.0

- Problem
 - HL7 ballot defeated was a "one-off" that hospitals did not want to build to.
- Course Correction
 - Develop implementation guide for selected
 Patient Discharge Summary elements...and
 vendors standardize translation to NEMSIS
 - Develop in FHIR with vendor translation
 - Use existing "query-based" models (CareQuailty)





NEMSIS V3.5.0 Timeline





Beyond Health Level 7

Harmonization with other Standards

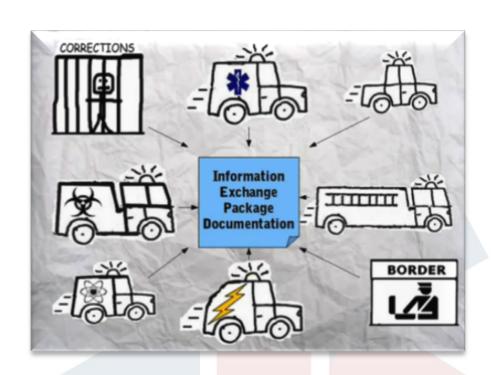
- Justice Domain
- EDXL-TEP
- NIEM

Facilitate Standards

- CAD
- Medical Devices
- AACN (VEDS)

Introduce Modules

- Air Medical
- Critical Care
- Community Paramedicine/Mobile Integrated Healthcare

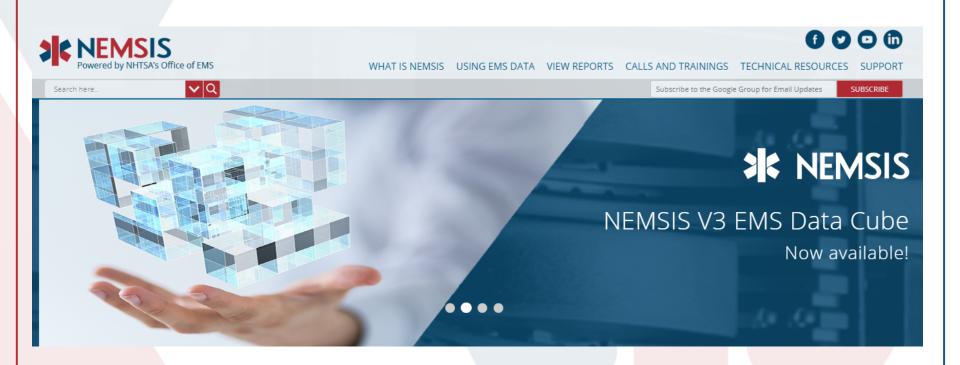






Questions?

nemsis.org







Context Diagram-Conceptual Information Flow

